REMARKS/ARGUMENTS

Prior to this Amendment, claims 1, 3-15, 17-20, 22, 23, and 25-30 were pending in the application. No claim amendments are presented at this time, and the listing of claims is provided only for completeness and to facilitate the review by the Examiner.

Finality of Office Action

The March 22, 2007 Office Action was issued in response to an Appeal Brief filed by the Applicant and reopened prosecution. The Examiner performed an additional search rather than allowing the appeal to continue and has cited 3 new patent references in rejecting the claims.

Because this is the first time these references were cited and because prosecution was reopened by the Patent Office, Applicant requests that the finality of the March 22, 2007 Office Action be reconsidered and the action be considered a non-final action.

Claim Rejections Under 35 U.S.C. §103

In the March 22, 2007 Office Action, claims 1, 3-5, 8, 11-15, 17, 18, 20, 22, 23, and 25-30 were rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Pat. No. 5,914,757 ("Dean") in view of U.S. Pat. No. 7,043,749 ("Davies"). This rejection is respectfully traversed based on the following remarks, which begin with a general discussion of embodiments of Applicant's invention and then proceed with a discussion of specific claim language and remarks distinguishing the teaching of both Dean and Davies.

Before turning to specific claim language, it may be useful to more generally describe some of the significant differences between Applicant's invention and the technologies described in Dean and Davies. Applicant's system is effective for mixing received streams with video portions that have been streamed over differing networks and/or different network paths. This is

important where two or more sources of video streams are being combined into a single stream. Video time-based synchronization requires synchronization in the 100 nanosecond or lower range with higher definition requiring even higher levels of synchronization. In part, this is because video mixing may involve superimposition of two images or fading one into another or cutting a hole and then matting another into the hole (e.g., mixing, matting, keying, and the like). For example, a live stream of a news or weather anchor may be keyed into a hole created in another live stream (e.g., a stream of live action video or weather map or the like) during mixing operations. Such mixing may involve mapping video streams on a pixel-by-pixel basis or even fractions of pixels (e.g., image element in one stream to an image element in another stream). Such video mixing is often orders of magnitude more accurate than that required to match an audio signal to a video signal.

Prior to the invention as noted in Applicant's Background, the problems associated with such mixing of media streams transmitted over the Internet and other networks had not been addressed, and one solution was to simply display video streams separately (e.g., avoid mixing) or at most try to synchronize a sound stream with a video stream but again without mixing. Note also that the difference between mere multiplexing of video streams and the mixing described by Applicant was explained in detail in Applicant's September 12, 2005 Amendment.

There are numerous differences between the time-based mixing of received signals as taught by Appellant and the teaching of Dean. Generally, Dean discusses issues with taking video signals from two sources that may "differ in both frequency and phase" (col. 1, line 63) and the need for the display device to accommodate for both frequency and phase differences such that the

source and display frequency and phase are synchronized (col. 2, lines 1-20). Prior art devices are said to solve these synchronization problems by adjusting "the display frequency and phase to match the frequency and phase of the source of the primary video image" (col. 2, lines 21-27).

Dean is directed to a device and method for improving on traditional picture-in-picture (PIP) display systems to avoid jumps or other issues (e.g., one screen or both black out momentarily) with prior art PIP devices such as that shown in Figure 1 that were used to sync phase and frequency of the primary image and the secondary image (the PIP image) when changes are made between these two channels or "sources" (see, for example, col. 6, lines 9-26). To this end, Dean teaches use of the PIP display of Figure 2 where two input channels or sources 161, 162 have their signals stored in buffers 140A, 140B. Then, as noted beginning at col. 6, line 63, Dean teaches that "neither buffered video signal is synchronized, per se, to one of the channel inputs, and thus, a change of the source of one channel would not affect the display of the other." The sync control 220 and memory controls 130A, 130B act such that the synchronization signal 266 is "synchronous with the source of the image most noticeable to the user" (col. 7, lines 23-25) such as the larger of the two screens. The synchronization signal is used to match source frequencies to control video judder but constant to control video jumps and this paradoxical design issue for controlling frequency and phase synchronization of the two channel signals 161, 162 is addressed with the Phase Locked Loop embodiment of the Dean system described in col. 7, line 53 to col. 10, line 19. Mixer 150 is used to generate a PIP image for display on video display 100 based on the buffered signals 173A. 173B.

Significant to Applicant's invention, the Dean system provides an improvement over prior PIP display devices but fails to discuss time-based synchronization and there is nothing to indicate the signals on channels 161, 162 are not provided in standard form such as by a common television content provider such as a cable TV or dish TV provider. There is no discussion in Dean of problems associated with variable transmission delays that may occur with transmission of data packets or media streams over the Internet or similar networks. Instead, Dean is only concerned with synchronizing frequency and phase of a source with a display device and not with time synchronizing two concurrently displayed images. For example, Dean is not concerned with whether its primary image and its secondary image are displayed in a time-based manner at all but only that the frequencies are matched to avoid image judder or jumps. Such control does not require any concern over when the signals on channels 161, 162 were transmitted from an originating source or when they are received at the PIP display device of Figure 2. In contrast, Applicant provides methods and systems that combine two or more video streams received from differing sources (e.g., over differing networks or paths) and with differing transmission times or delays into a single stream in which the streams are synchronized (e.g., mapped pixel to pixel in some cases) based on transmission time from their sources. Frequency and phase issues discussed in Dean may still have to be addressed to create a PIP display without jump or judder, but this is a distinct issue relative to the time-based synchronization addressed by Applicant.

Davies is directed toward a network gateway for use in synchronizing audio signals delivered over a telephony network and video signals delivered over a digital communications network to provide "lip-synch." As discussed in prior Amendments, synchronizing audio and video signals is much easier than

synchronizing video streams (such as down to the pixel level), with Davies noting in col. 9, lines 60-64 that mismatches of up to 10 to 40 milliseconds are acceptable. However, Applicant does understand that Davies is attempting to solve a time-based synchronization problem. But, Davies attacks the problem very differently than Applicant even in the audio to video realm. Specifically, Davies teaches in col. 10 that it is assumed that "network propagation delays are predictable" (col. 10, lines 25-30) in the design of the gateway and that "network propagation delays may be assumed to be constant during a call as users can cope with minor blips in synchronization" (col. 10, lines 46-48). In contrast, Applicant's invention is directed to solving problems associated with "non-deterministic delays" and "variable transmission rates" that may for each media stream or even on a packet-by-packet basis (e.g., even from a single source the path of data packets may vary within the stream or from stream to stream).

With these assumptions in mind, Davies teaches in its Summary of the Invention, in col. 12, and elsewhere a calibration technique for particular video equipment, compression and encoding algorithms, and transmission of test audio and video signals. For the particular systems configuration, a mismatch is determined for the synchronization and a "variable delay" in the gateway is adjusted until the two signals are synchronized. Then, with reference to Figure 1, the calibrated gateway 101 is used to apply this variable delay on a signal routed through the gateway, such as the audio signal or the video signal, when one of the combined multimedia terminals are used. There is no ongoing adjustment for variable transmission delays as the "variable delay" is stored for "in the gateway for future use" (col. 2, line 45) and "only new combinations of audio and video devices on different networks will need calibration" (col. 12, lines 4-8). Hence, Davies teaches a one-time calibration technique for accounting for

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differing delivery rates for an audio signal and a video signal, such as may be useful for video conferencing.

However, when compared generally with Applicant's invention, there is no teaching of determining transmission delay for both of two received streams as it only teaches tuning or adjusting a delay applied to a signal passing through a gateway device until synchronization is achieved one time and then storing that delay value (e.g., that actual delay of either of the signals does not have to be determined). Hence, there is no teaching of looking at information in the video streams themselves to determine such a delay value. Further, Davies provides no teaching that the two signals are mixed or combined in any manner as the stored variable delay is simply applied to one of the signals but both signals are delivered to their separate terminals (e.g., audio terminal 104 and video terminal 105 of a combined multimedia terminal 108). Hence, there is no teaching of placing the two signals into a neutral form prior to storage in a buffer to facilitate later combination into a sequential or concurrent composite media stream.

Turning now to the claim language, claim 1 calls for an input interface that receives first and second media streams that each include a streaming video portion. According to claim 1, the two media streams "comprise a plurality of digital packets being transmitted over the communications network from a first and a second media source." A controller determines a "variable transmission delay for the first and second media streams from the first and second media sources to the input interface and performs the selective retrieving based on the determined variable transmission delays." Additionally, the controller mixes the retrieved time-adjusted streams "into a composite media stream wherein the first and second time-adjusted streams are synchronized based on time." The

combined teaching of Dean and Davies fails to teach or suggest each of these limitations of claim 1.

Further, claim 1 can be summarized with comparison to the Applicant's specification as provided in the following detail provided in Applicant's previously-filed Appeal Brief. Claim 1 is directed to a synchronization system for time-based synchronization of streaming media transmitted over a communications network. Referring to Applicant's specification, a webcast system 100 is shown in Figure 1 that is adapted for webcasting and is shown to include a number of streaming media sources 130, 150, 160 that provide streaming media inputs 112, 140 that may be subjected to varying transmission delays as they are transmitted over the communication network 138 or the Internet 144. A streaming media synchronization system 110 as called for in claim 1 is shown as part of the webcast system of Figure 1 for generating time-synched media signals 114 by processing the streaming media inputs 112 from multiple sources. An exemplary embodiment of the synchronization system 110 is shown in detail in Figure 2.

The synchronization system of claim 1 includes "an input interface" that acts to receive first and second media stream from first and second media sources with each media stream including a "streaming video portion." As shown in Figure 2, two input streams 112 are received such as from sources 150, 160 (and/or source 130) by I/O interface 210 and the inclusion of video in the stream is discussed at least at page 11, lines 7-21. The system of claim 1 further includes first and second data buffers that store the data packets from the two media streams as shown at 222, 224 of Figure 2 and as explained in the paragraph beginning at line 9 of page 16.

The synchronization system of claim 1 includes a controller "linked to the first and second data buffers for selectively retrieving the data packets of the first and second media streams to form a first and a second time-adjusted stream, wherein the controller determines a variable transmission delay" for the streams from the sources to the input interface and uses this variable transmission delay to decide when to retrieve the buffered packets. Further, the controller is configured "for mixing the first and second time-adjusted streams into a composite media stream wherein the first and second time-adjusted streams are synchronized based on time." An exemplary controller is shown by the controller and media processor 230 and 240 of Figure 2 that act to mix time-adjusted streams 234 to output a composite stream 114. This important aspect of the system of claim 1 is explained in detail in Appellant's specification from page 15. line 16 to page 16, line 22. As explained, the variable transmission delay is determined for each of the received media streams using an external timing reference such as reference 120 and a time stamp or information in the received stream, and the determination may be done once for a stream or file or two or more times for a stream or file. As can be seen from the language of claim 1 and this portion of the specification, the controller acts to both synchronize two media streams that include a video portion and to mix the two streams into a single composite media stream in which the video portion from differing sources is time-synchronized (e.g., as might be used to create side-by-side screens of live broadcasts from differing sources and/or geographic locations or picture-inpicture effects where the two streams are accurately time synchronized).

The Office Action states cites Dean for teaching the input interface of claim 1 at col. 4, lines 6-22 and Figure 2 elements 161, 162. Applicant disagrees with this assertion because Dean teaches a conventional PIP display that is combining 2 signals based on frequency and phase, but there is no suggestion in

Dean that the input signals "comprise a plurality of digital data packets being transmitted over the communications network from a first and a second media source." This is significant to claim 1 because it is the use of a communications network by two media sources that are providing the first and second signals that creates the issue of two differing transmission delays. The portion of col. 4 cited by the Examiner states that typically the "two channel inputs are IN-A 161 and IN-B 162" which typically would come from two television channel tuners (i.e., from a single "source" such as a cable line or dish receiver and a content provider). However, Dean at this citation then states that "such signals may have come from two independent sources of video images, as well, such as a video camera and a computer device." This statement appears to have more to do with the fact that the source frequency and phase may differ for the two "sources." Therefore, Dean does not teach: (a) that the signals on channel inputs IN-A 161 and IN-B 162 are digital data packets that have been transmitted over a communications network or (b) that the packets were transmitted over such a network from two differing media sources. As a result, the input interface element of claim 1 is missing from the teaching of Dean.

The Office Action cites Dean as teaching the controller of claim 1 that functions "for mixing the first and second time-adjusted streams into a composite media stream wherein the first and second time-adjusted streams are synchronized based on time" but then in the first full paragraph of page 4 states that Dean does not disclose "the time-adjusted streams are synchronized on time." Applicant asserts that the second conclusion of the Examiner is correct. Dean is cited at col. 4, lines 51-65 and mixer 150 of Figure 2 for the first conclusion. The only line that seems relevant states the "mixer 150 presents the appropriate portion of the image to be displayed at the time the display requires it" by retrieving images from the buffers. However, Dean is directed toward

frequency and phase synchronization so the "time" discussed here appears to be referring to retrieving a buffered image using a synchronization signal when a PIP display is demanded and placing the images in the PIP display in the primary or secondary portions as required. As discussed above, there is no discussion of network propagation delays or of synching the two images from the two input channels based on when they were transmitted from their sources. With this in mind, Applicant asserts that the limitations of the final wherein clause of claim 1 are not shown by Dean.

The Office Action on page 4 states that Dean fails to disclose "selectively retrieving the data packets of the first and second media streams to form a first and a second time-adjusted stream, the controller determines a variable transmission delay for the first and the second media streams from the first and second media sources to the input interface and performs the selective retrieving based on the determined variable transmission delays, and the time-adjusted streams are synchronized based on time." Hence, Davies is required to show each of these features of the controller and also make up for the input interface deficiency discussed above.

First, Applicant asserts that Davies fails to show "the controller determines a variable transmission delay for the first and the second media streams from the first and second media sources to the input interface." The Office Action cites Davies at col. 4, lines 11-30, lines 45-63, and col. 15, lines 22-46. Initially, "variable delay" is described in col. 2, lines 56-67 as the delay in the sensory audible and visible output from the separate output devices (such as a speaker or video display unit). Any detected mismatch in the synchronization of these outputs is accounted for by adjusting the variable delay applied by the gateway on one of the signals (e.g., typically the audio signal) to achieve a calibrated

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synchronization (and the delay is then applied whenever the calibrated device is used). However, in the Summary, there is no discussion of calculating the transmission delay for the data packets in the first stream due to their travel over the network and the transmission delay for the data packets in the second stream due to their travel over the network (e.g., the claim requires that "delays" be used to perform the selective retrieving and not a single value). Referring to the specific citations, at col. 4, lines 11-30, Davies mentions a synchronization delay that may involve a transit delay or propagation delay, but such a delay is only between the gateway device and the audio or video device and not over a network from two differing media sources. Also, Davies beginning at line 19 of col. 4 quickly returns to the discussion of a sensory output delay that is "defined as the time difference between the audio and video the user perceives at the terminal." It is this perceived difference that is accounted for and not a determined transit delay or as called for in claim 1 a "variable transmission delay." Davies teaches actually measuring the "actual delay between the audible and visible output, and then by storing a value corresponding to this variable delay in the gateway" so that one of the signals can be delayed in the gateway device to achieve a better synchronization in a calibrated manner. Hence, Davies fails to teach a controller that determines a variable transmission delay for two media streams between a source and an interface as called for in claim 1.

Second, Applicant asserts that Davies fails to show a controller selectively retrieves "the data packets of the first and second media streams to form a first and a second time-adjusted stream" wherein the selective retrieving is "based on the determined variable transmission delays." As discussed above, Davies fails to teach determining the variable transmission delays as called for in claim 1, and, as a result, Davies cannot teach selective retrieval of data packets from

buffers based on these values. However, even if the variable delay discussed in Davies taught these two values, Davies would still fail to teach the selective retrieval of claim 1. This is because Davies teaches in its Summary and elsewhere that once a calibrated "variable delay" is stored in the gateway device that it is applied to either the audio or the video signal to achieve synchronization. This same delay is imposed by network gateway whenever the system is used, e.g., until new components are added. There is no teaching of retrieving two streams of data based on variable delays but instead Davies teaches slowing one of the two streams down a particular amount to achieve synchronization at the output devices (e.g., the audio and video terminals of the combined media devices). The Office Action cites col. 4, lines 11-30 and 45-63 and col. 15, lines 22-46 for providing the selective retrieval, but lines 11-30 discuss the "variable sensory output delay" and how to control it by "either the audio or the video signal is delayed within the gateway by the appropriate amount" (where is selective retrieval from a buffer shown?). At col. 4, lines 46-63 and at col. 15, lines 22-46, Davies discusses how to account for processing delays (e.g., skew) within the gateway device itself in loop back type systems with some of these delays being "known from standard techniques for that type of terminal" (rather than varying each time packets are sent on a network). Hence, the cited portions of Davies fails to teach a controller performing the selective retrieval called for in claim 1 to form two time-adjusted streams from buffers.

In summary, Applicant disagrees with the Examiner that Davies teaches the controller features that it is cited for in the Office Action. Further, Davies fails to overcome the deficiency discussed above for Dean in that there is no showing of an input interface that receives two media streams transmitted from two media sources and comprising streaming video portions. Davies, instead, teaches

receiving an audio signal from a telephony network and receiving a video signal such as from a LAN, a WAN, or via the Internet. Hence, Dean and Davies fail to teach or suggest the system of claim 1 because their combined teachings fail to show either the input interface or the controller that functions as required to generate a composite media stream that is formed from two time-adjusted streams such that these two streams are synchronized based on time. Applicant requests that the rejection of claim 1 be withdrawn as not properly supported.

Combining the teaching of these two references would not result in the claimed system. Dean teaches synching the frequency of two video signals for two channels selected for PIP display and Davies teaches calibrating with a gateway an audio output and a video output (again, a one time calibration that is not applied to two streams of data packets based on non-deterministic or continually varying network propagation delays) by delaying one of the two signals in an ongoing, constant fashion for that group of components. If Dean were modified based on Davies, the result may be that a PIP display with images having frequencies between their sources and the display device would be combined with an audio signal. But, there would still be no teaching that it was important to try to achieve time-based synchronization of the two images of the PIP display (e.g., why do I care if a football game on the ESPN channel is synchronized to account for transmission delay with a sitcom on the NBC channel whereas you do want to avoid jumps or other issues with flipping between the two images as primary/secondary?) or how such synchronization would be achieved. For this additional reason, Applicant believes these two references fail to make the system of claim 1 obvious to one skilled in the arts.

Claims 3-5, 8, and 11-14 depend from claim 1 and are believed allowable over Dean and Davies at least for the reasons provided for allowing claim 1.

Further, claims 3 and 4 are addressed to cases where the two received media streams have differing compression formats and handling the streams to allow mixing by decoding into compatible forms. There is no discussion of decoding the two streams into formats that are compatible prior to storage in buffers in Dean or Davies. The Office Action cites Dean at col. 10, lines 31-46 for teaching the limitations of claims 3 which states that the two media streams may be compressed on first and second compression formats that differ. However, at the cited portions, Dean states the shown configuration "allows for the video images to be processed and stored in an optimized form, for example, as compressed video, for synchronization purposes, then present in detailed form, for example, as uncompressed video, for display." This does not teach that the signals on the two inputs 161 and 162 are received with differing compression formats but, instead, seems to teach buffering the two signals as compressed video and then processing for display as uncompressed video. Davies is cited at co. 4. lines 11-22 for teaching the limitations of claim 4, which calls for a decoding device that creates first and second decoded streams from the two incoming streams that are compatibly formatted prior to storage in the buffers. As discussed previously, there is no mixing/combining of the audio and video signals in Davies; so, there is no reason to format them in compatible formats. At col. 4, lines 11-22, Davies is discussing sensory output delay and provides no teaching whatsoever regarding decoding the two signals into compatible formats prior to storage in buffers. For these additional reasons, claims 3 and 4 are believed allowable over Dean and Davies.

Claim 5 calls for the controller to "form the composite media stream by combining the first and second time-adjusted streams such that the second time-adjusted stream has a first data packet positioned at a start time adjacent a last data packet of the first time-adjusted stream positioned at an end time." This is

to avoid dead air between two video streams. Dean is cited for teaching this limitation at col. 4, lines 51-65. However, Dean is concerned with PIP display and provides no teaching of forming composite, sequential video streams. Instead, Dean teaches displaying primary or secondary images in PIP arrangement. At col. 4, lines 51-65 the term "sequential" is used but this is only in reference to how video displays are generated line-by-line from top to bottom and this would be true for a mixed PIP display. But, the PIP image would not be created by placing the start time of one image stream next to the last data packet of the other image stream or this would result in one of the images being null or black (e.g., the secondary or primary image would disappear on the display screen). Hence, Dean fails to support a rejection of claim 5 for this additional reason.

Yet further, claim 8 calls for a data parsing device that retrieves time data from the two media streams that is used by the controller to determine variable transmission delays for the two streams. Davies is cited at col. 4, lines 11-30, lines 45-64, and col. 15, lines 22-46 for teaching this limitation. Initially, it should be remembered that Davies fails to teach receiving and processing two video streams for later mixing/combination, and, hence, this reference cannot teach this limitation. But, further, at col. 4, Davies discusses measuring time differences and "actual delay" but there is no teaching of retrieving time data such as a time stamp or transmission time from received data packets for use in determining these time differences or actual delay. In col. 15, Davies discusses transmission of a marker signal to assist in determining skew caused by the gateway device but does not discuss retrieving "time data" from media streams. Since there is no teaching or discussion of the limitations of claim 8 in Davies, the rejection of claim 8 should be withdrawn for this additional reason.

Turning now to independent claim 15, this claim is directed to an apparatus for synchronizing media streams transmitted over a communication network. As with the system of claim 1, the streaming media synchronization system 110 shown as part of webcast system 100 in Figure 1 and in more detail in Figure 2 is a representative embodiment of the claimed apparatus. The apparatus of claim 1 includes an input interface, such as I/O interface 210, that acts to receive media streams transmitted by first and second media sources over a communications network. In contrast to claim 1, the media streams are encoded to first and second compression standards that differ. As explained beginning at page 14, line 18, the compressed streams 212 received by the I/O interface 210 may be formatted "under different, incompatible compression" standards and formatting schemes." In this regard, claim 15 calls for the apparatus to include a decoder that decodes the two received streams into intermediate streams that "are compatibly formatted." The decoder may be the parsing and decoding manager 216 shown in Figure 2 that functions to "output compatible or codec neutral streams 220" as explained at lines 20-23 of page 14.

Claim 15 further calls for a streaming media processor, such as processor 240 shown in Figure 2, for "mixing the first and the second intermediate-format media streams into a composite media stream encoded according to an output compression standard." For example, the streams 234 that are formed from codec neutral streams 220 may be mixed into a composite media stream 114 using an output compression standard, with operation of the processor 240 explained at least at page 20, line 22 to page 21, line 21. The apparatus of claim 15 further includes a controller such as controller 230 of Figure 2 that determines a variable transmission delay for the two received media streams as discussed with reference to claim 1. Claim 15 further calls for the determination to be done

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based on transmission and receipt times for a particular data packet in each stream as discussed at page 16, lines 1-10.

Independent claim 15 includes limitations similar to claim 1. Hence, the reasons provided for allowing claim 1 over Dean and Davies are believed applicable to claim 15. Additionally, claim 15 includes limitations similar to dependent claims 3 and 4, and the reasons for allowing claims 3 and 4 over Dean and Davies are applicable to claim 15.

Claims 17 and 18 depend from claim 15 and are believed allowable over Dean and Davies at least for the reasons provided for claim 15.

Independent claim 20 was rejected for substantially the same reasons as provided for claim 1. Independent claim 20 is directed to a method with limitations similar to those of claim 1 but presented in method form. Hence, the description of claim 1 provided above is applicable to claim 20. Claim 20 further specifies that the time-adjusted streams 234 are created by correcting for the two determined transmission delay values by "matching the data packets of the first and second media streams based on transmittal times from the first and the second media sources." This type of matching is explained in Applicant's specification from line 9, page 16 to at least line 7, page 18. Claim 20 also calls for creating a synchronized media stream (e.g., mixing by processor 240 to create composite stream 114) by "mixing" the two media streams and requires that the first and second media streams "are presented in the synchronized media stream concurrently" rather than sequentially or serially. This concurrent presentation is discussed at least in the paragraph beginning at line 15, page 21 (e.g., two or more live webcasts may be shown in separate windows or screens with proper time synchronization).

Because claim 20 includes limitations similar to claim 1, the reasons for allowing claim 1 over Dean and Davies are believed applicable to claim 20. Additionally, claim 20 calls for the two media streams to include data packets from one or more video files and adjusting the two streams including "matching the data packets of the first and second media streams based on transmittal times from the first and second media sources." Dean and Davies fail to show the use of transmittal times for either their frequency/phase synchronization of PIP images or for the delay of an audio signal in a gateway to match a video signal. The Office Action states that Davies teaches the retrieval of timing data from two media streams, but the citations to Davies fail to support such a statement as was discussed above with reference to dependent claim 8. Further, claim 20 specifically calls for use "transmittal times from the first and second media sources." Davies fails to teach determining any of its delays based on transmittal time with most of its discussion going toward measuring actual differences between the timing of outputs on audio and video terminals or devices. Hence, Dean and Davies fail to support a rejection of claim 20 for this additional reason.

Claims 22, 23, and 25-30 depend from claim 20 and are believed allowable over Dean and Davies for at least the reasons provided for allowing claim 20. Further, claims 25 and 26 have limitations similar to claims 3 and 4 and are believed allowable for the reasons provided for these claims.

Further, in the Office Action, claims 6, 7, and 19 were rejected under 35 U.S.C. §103(a) as being unpatentable over Dean and Davies as applied to claims 5 and 17 further in view of U.S. Pat. No. 6,360,271 ("Schuster"). Claims 6 and 7 depend from claim 1 and claim 17 depends from claim 15, and these claims are believed allowable over Dean and Davies at least for the reasons

provided for claims 1 and 15. Schuster is not cited for overcoming the deficiencies pointed out for Dean and Davies with regard to claims 1 and 15, and, as a result, claims 6, 7, and 19 are believed allowable over the combined teaching of Dean, Davies, and Schuster.

Yet further, claims 9 and 10 were rejected in the Office Action under 35 U.S.C. §103(a) as being unpatentable over Dean, Davies, and Schuster as applied to claim 6 and further in view of U.S. Pat. No. 5,313,454 ("Bustini"). Claims 9 and 10 depend from claim 6 and are believed allowable for over Dean, Davies, and Schuster at least for the reasons provided for allowing claim 6. Further, Bustini is not cited as overcoming the deficiencies of Dean and Davies with regard to base claim 1. Hence, claims 9 and 10 are believed allowable over the combined teaching of these four cited references.

Conclusions

In view of all of the above, it is requested that a timely Notice of Allowance be issued in this case.

The fees associated with an extension of time are provided with this Amendment, but no other fee is believed due with this submittal. However, any fee deficiency associated with this submittal may be charged to Deposit Account No. 50-1123.

Date

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Respectfully submitted